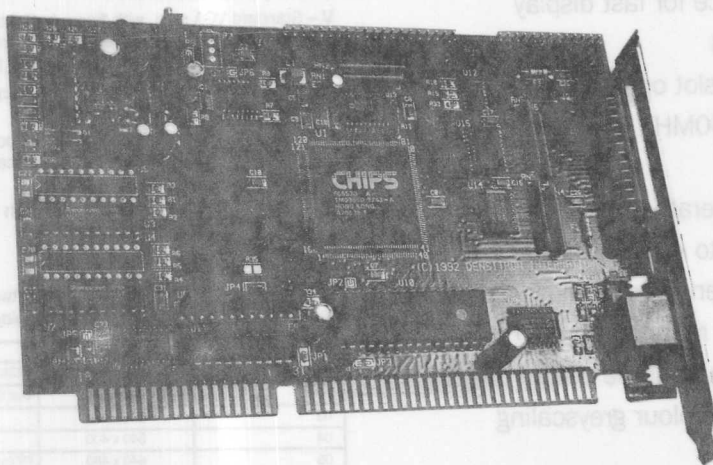


# DENSITRON

## PCX35 Colour Flat Panel VGA Controller

New Product

Catalog No: PRE/004



The PCX35 is an IBM VGA compatible graphics controller specifically designed to allow Densitron monochrome and colour flat panel displays to be used in IBM PC compatible systems. The PCX35's full compatibility with the VGA video standard will allow all flat panel technologies to be used in conjunction with any existing or new PC application software. The PCX35 is available in a number of versions, each designed to give optimum performance for a specific display technology. These include AC plasma, DC plasma, EL, monochrome LCD, passive matrix colour LCD and active matrix TFT technology. There is also a version which allows flat panel display operation in SVGA mode driving up to 1280 x 1024 pixels. Another key feature incorporated in the design is the ability to allow the user simultaneous CRT and flat panel operation. Up to 226K colours can be supported when utilising Densitron's latest

FSTN passive matrix colour displays. On TFT LCD, EL and plasma displays the PCX35 will support 185K colours. Another design feature of the PCX35 has been the inclusion of a power supply capable of generating all the necessary positive or negative panel drive voltages for liquid crystal displays. This unit has also been designed to meet the strict on/off power sequencing requirements necessary when using LCD's. The card also includes a variety of programmable features to optimise display quality. These include a text enhancement mode, three selectable RGB colour-to-grey scale reduction options and polynomial FRC grey scale algorithm designed to reduce flicker on fast response "mouse quick" displays. For the prototype design engineer, the VGA BIOS is held in Flash memory allowing reprogramming. Connection to the PCX35 when using a FSTN colour display is by means of either an optional external 37-way D-type connector or a 40-way DIL header installed on the board. Pin sequencing has been optimised for ease of connection to all Densitron displays. For other flat panel displays connection is via the standard external 25-way D-type and the CRT via a 15-way connector. By offering displays and matching controller cards, Densitron provides the user with a TOTAL DISPLAY SOLUTION.

### Features

- ☐ Fully IBM VGA compatible
- ☐ Supports all Flat Panel Technologies to 1280 x 1024 Dot Resolution
- ☐ Simultaneous CRT and Flat Panel operation
- ☐ 8 or 16 bit ISA slot compatible
- ☐ Direct Connection to Densitron FSTN colour displays
- ☐ Supports monochrome or colour Flat screen displays
- ☐ Up to 226k colours on passive matrix FSTN Colour Displays
- ☐ Proven DOS and OS/2 Compatibility
- ☐ On-board power supply for LCD panels with display protection on power sequencing
- ☐ Programmable VGA BIOS in Flash Memory
- ☐ Built in Flat Panel display enhancement programs

